

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning at page 2, line 21, and ending at page 3, line 9 with the following:

B1

-- A wireless base station using an adaptive array method can communicate simultaneously with a plurality of mobile stations. This is achieved by forming a different directional pattern for each of the plurality of mobile stations to multiplex ~~them~~ the mobile stations simultaneously on a single frequency. This type of communication may be referred to as path division multiple access (PDMA), and is a space diversity technique. PDMA is described in Pasu Bunkatsu Tegen Setsuzoku (PDMA) Ido Tsushin Hoshiki (The Path Division Multiple Access (PDMA) Mobile Radio Communication Systems) (IEICE Technical Report RSC93-84 (1994-01), pages 37 to 44), so a detailed explanation is omitted here. --

Please replace the paragraph beginning at page 3, line 10, and ending at line 21 with the following:

B2

-- When an adaptive array wireless base station is used in a mobile communication system such as the personal handyphone system (PHS), use of directional patterns needs to be determined according to whether a mobile station is using a control channel used for controlling incoming and outgoing calls, or a traffic channel (also known as a communication channel) used for making calls. In other words, the wireless base station transmits and receives control signals

B2 on control channels using an omnidirectional pattern than that does not use path multiplexing, and transmits and receives communication signals (audio signals) on traffic channels by path multiplexing using a directional pattern. --

---

Please replace the paragraph beginning at page 7, line 20, and ending at line 24 with the following:

---

B3 -- This structure enables the wireless base station to determine whether to transmit a traffic channel allocation message at a raised transmission output using an array antenna pattern and or by using omni-transmission. --

---